

# Illinois Number Theory Conference

May 27–28, 2011

## University of Illinois at Urbana-Champaign

### Friday, May 27, 314 Altgeld Hall

9:00 REGISTRATION

9:30 **Paul Pollack** (University of Illinois), *Parity of the multiplicative partition function*

10:00 **Youness Lamzouri** (University of Illinois), *Prime number races*

#### COFFEE & TEA

11:00 **Jingjing Huang** (Penn State University), *Binary Egyptian fractions*

11:30 **Taiyu Li** (Shandong University and Towson University), *Sums of almost equal squares of primes*

#### LUNCH BREAK

2:00 **George Purdy** (University of Cincinnati), *Smooth number estimates with applications to stereo vision*

2:30 **Sam Wagstaff** (Purdue University), *How often does  $2kp + 1$  divide  $p^p - 1$ ?*

#### COFFEE & TEA

3:30 **Robert Marshawn Walker** (University of Illinois), *Deducing a  $q$ -analog of Fleck's Congruence*

4:00 **Kit Ho Mak** (University of Illinois), *Maximal curves and the subcover problem*

4:30 **Peter Jaehyun Cho** (University of Toronto), *The strong Artin conjecture and number fields with large class numbers*

### Saturday, May 28, 314 Altgeld Hall

9:00 **Robert Vaughan** (Penn State University), *Waring's problem, Beatty sequences, and related questions*

10:00 **Johann Thiel** (University of Illinois), *Number theory, probability, and the American flag*

#### COFFEE & TEA

11:00 **Anna Haensch** (Wesleyan University), *Almost universal ternary sums of squares and triangular numbers*

11:30 **Mojtaba Moniri** (Western Illinois University), *Transcendental reals of low Sturmian complexity*